

AIR REGENERATING DEVICE FOR AIRCRAFT

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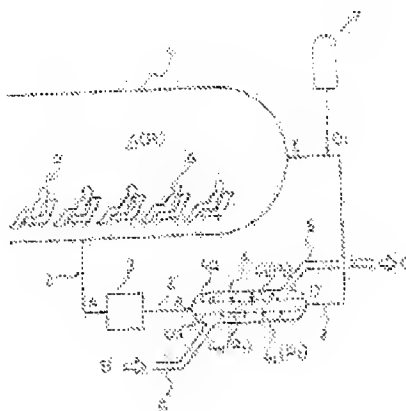
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Abstract of JP 3061198 (A)

PURPOSE: To reduce the amount of consumption of O₂ cylinders by separating the circulating air inside an aircraft into a high CO₂ concentration air and a low CO₂ concentration air, and by introducing ram air into the high CO₂ concentration air, so that the high CO₂ concentration air can be discharged by the ram air to the outside of the aircraft.

CONSTITUTION: The air inside a cabin 1 is sent to a separator 4 through a circulating passage 2 via a filter 3. In the separator 4, only CO₂ is permeated by a separation membrane 4a having a larger CO₂ permeability and a lower O₂ permeability to separate a high O₂ concentration air from a high CO₂ concentration air. And, by introducing ram air B into the low-pressure side 4L having a high CO₂ concentration through an outside-air introducing passage 6, the high CO₂ concentration air is discharged by the ram air B to the outside of the aircraft through a discharge passage 5. On the other hand, the high O₂ concentration air on the high-pressure side is supplied with O₂ from a cylinder 7 in the circulating passage 2, and then is returned to the cabin 1. By this constitution, the amount of consumption of O₂ cylinders can be reduced.



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